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NOTICE OF ALLOWANCE AND FEE(S) DUE

30596

7590

03/27/2008

HARNESS, DICKEY & PIERCE, P.L.C. P.O.BOX 8910 RESTON, VA 20195 EXAMINER

NGUYEN, HOAI AN D

ART UNIT PAPER NUMBER

2858

DATE MAILED: 03/27/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,818	03/28/2006	Bernd Adam	32860001017US	9343

TITLE OF INVENTION: DEVICE FOR DETECTING CONTACT WEAR IN SWITCHING APPLIANCES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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CURRENT CORRESPOND		Note: A certificate of mailing can only be used for domestic mailing Fee(s) Transmittal. This certificate cannot be used for any other accompapers. Each additional paper, such as an assignment or formal drawin have its own certificate of mailing or transmission.					other accompanying		
30596 HARNESS, D P.O.BOX 8910 RESTON, VA 2	^{7/2008} E, P.L.C.		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/573,818 TITLE OF INVENTION	03/28/2006 N: DEVICE FOR DETEC	TING CONTACT WEA	Bernd Adam R IN SWITCHING AI	PPLL	ANCES	3	2860001017US		9343
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EXAM	MINER	ART UNIT	CLASS-SUBCLASS	3					
NGUYEN,	HOAI AN D	2858	324-415000						
"Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un recordation as set for	AND RESIDENCE DATA lless an assignee is ident th in 37 CFR 3.11. Com	"Indication form led. Use of a Customer A TO BE PRINTED ON ' ified below, no assignee	data will appear on the T a substitute for filing	rnativ single or a attor ll be p or typ he pa g an a	rely, e firm (having as a gent) and the nammeys or agents. If printed. e) ttent. If an assignassignment.	memb es of u no nam	er a 2	ocume	nt has been filed for
4a. The following fee(s) Issue Fee Publication Fee (1)	riate assignee category or	4l permitted)	b. Payment of Fee(s): (A check is enclos Payment by credi	(Pleased.	Individual	orporati ny prev	on or other private gro iously paid issue fee	shown	above)
			overpayment, to I	Depos	sit Account Number	er	(enclose a	n extra	copy of this form).
	a tus (from status indicate ns SMALL ENTITY statu		☐ b. Applicant is no	o long	ger claiming SMA	LL EN	TITY status. See 37 CI	FR 1.2	7(g)(2).
NOTE: The Issue Fee ar interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ttes Patent and Trademark	ed from anyone other the Office.	nan tl	ne applicant; a regi	stered a	attorney or agent; or th	e assig	gnee or other party in
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P.O.BOX 8910			ART UNIT	PAPER NUMBER		
RESTON, VA 20195			2858			
			DATE MAILED: 03/27/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 304 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 304 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

		,
	Application No.	Applicant(s)
	10/573,818	ADAM ET AL.
Notice of Allowability	Examiner	Art Unit
	HOAI-AN D. NGUYEN	2858
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. 🔀 This communication is responsive to the preliminary amen	<u>dment filed on 03/28/2006</u> .	
2. ☑ The allowed claim(s) is/are <u>1-24</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)).	currents have been received in this	national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EXAMINER	S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		-948) attached
1) hereto or 2) to Paper No./Mail Date	•	,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	.84(c)) should be written on the drawi	ngs in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL	must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 03/28/06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 		(PTO-413), te
	9. ☐ Other /Vincent Q. Nguyen/ Primary Examiner, Art Uni	t 2858

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Art Unit: 2858

DETAILED ACTION

1. Receipt is acknowledged of the Preliminary Amendment filed on March 28, 2006.

Claims 1-12 and newly submitted claims 12-24 are pending in the application.

Allowable Subject Matter

2. Claims 1-24 are allowed.

3. The following is an examiner's statement of reasons for allowance:

With regard to claim 1, the prior art does not teach, suggest or render obvious the claimed apparatus for detection of contact erosion on switching contacts in an electrical switching device, the contact erosion being produced on at least one opening and closing switching contact pair in the switching device in combination as claimed including:

- at least one optical waveguide and at least one detector; and
- The at least one optical waveguide being arranged with respect to the at least one switching contact pair such that intensity, as measured by the at least one detector, of light when injected into the at least one optical waveguide decreases as the number of contact erosion particles produced by the contact erosion in the electrical switching device increases.

With regard to claims 2-20, these claims are allowed due to at least by virtue of their dependencies from the base claim.

With regard to claim 21, the prior art does not teach, suggest or render obvious the claimed apparatus for detection of contact erosion on switching contacts in an electrical switching device in combination as claimed including:

means for detecting contact erosion by measuring intensity of the channeled light,
 the means for optically channeling light being arranged with respect to the at least
 one switching contact pair such that the measured intensity of light decreases as a
 number of contact erosion particles produced by contact erosion in the electrical
 switching device increases.

With regard to claims 22-24, these claims are allowed due to at least by virtue of their dependencies from the base claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAI-AN D. NGUYEN whose telephone number is (571)272-2170. The examiner can normally be reached on M-F (8:00 - 5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2858

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hoai-An D. Nguyen Patent Examiner

Art Unit 2858

/HADN/

/Vincent Q. Nguyen/ Primary Examiner, Art Unit 2858